Proposed Item for Biobased Designation

The following biobased product information has been collected to support item designation by USDA for the Federal Biobased Product Preferred Procurement Program (FB4P). This summary reflects data available as of September 15, 2005.

Title: Water Tank Coatings

Description: Water tank coatings represent that group of products formulated for use in potable water storage systems to provide a durable maintenance free protective liner. These products are typically applied as a sprayed on thick film coating. Water tank coatings can be applied over both concrete and steel water tanks and reservoirs providing extended lifecycle protection.

Manufacturers Identified: 1 manufacturers producing Water Tank Coatings have been identified through internet searches, manufacturer's directories, trade associations, and company submissions.

Industry Associations Investigated: The following industry associations have been investigated for member companies producing Water Tank Coatings:

- Biobased Manufacturers Association
- Spray Polyurethane Foam Alliance
- National Paint & Coatings Association
- Roof Coatings Manufacturers Association
- National Roofing Contractor's Association
- Alliance for the Polyurethanes Industry
- The American Plastics Council
- Polyurethane Manufactures Association National Association of Home Builders
- Building Materials Resource
- Net Composites/Polyurethane Foam
- The Corrosion Society
- Steel Structures Painting Council
- American Water Works Association
- National Association of Pipe Coating Applicators

Commercially Available Products Identified: Of the manufacturers identified, 1 Water Tank Coatings are commercially available on the market.

Product Information Collected: Specific product information including company contact, intended use, biobased content, and performance characteristics have been collected on 1 Water Tank Coatings.

Industry Performance Standards: Product information submitted by biobased manufacturers indicate that have typically been tested to the following industry standards:

 American Society for Testing and Materials #D4541-95e1 Standard Test Method for Pull-Off Strength of Coatings Using Portable Adhesion Testers **Samples Tested for Biobased Content:** 1 samples of Water Tank Coatings have been submitted to independent laboratories for biobased content testing as specified by ASTM standard D6866-04.

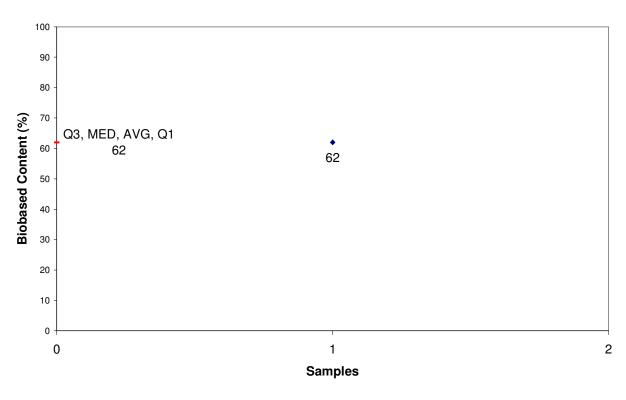
Biobased Content Data: Results from biobased content testing of Water Tank Coatings indicate a range of content percentages from 62% minimum to 62% maximum biobased content as defined by ASTM D 6866-04. A detailed distribution of biobased content levels is included as Appendix A.

Products Submitted for BEES Analysis: Life-cycle cost and environmental effect data for 1 Water Tank Coatings have been submitted to NIST for BEES analysis.

BEES Analysis: The life-cycle costs of the submitted Water Tank Coatings range from \$3.12 minimum to \$3.12 maximum per usage unit. The environmental scores range from 0.0083 minimum to 0.0083 maximum. A detailed summary of the BEES results is included as Appendix B.

Appendix A - Biobased Content Data

Water Tank Coatings



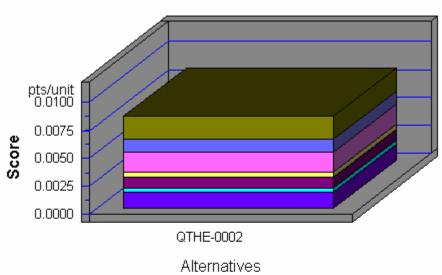
	Manufacturers Identified	Products Identified	C14	BEES
1	QTHE	QTHE-0002	62	yes

Appendix B - BEES Analysis Results

Units: One 55-gallon Drum







Note: Lower values are better

Category	QTHE-0002		
Acidification5%	0.0000		
Crit. Air Pollutants6%	0.0000		
Ecolog. Toxicity11%	0.0021		
Eutrophication5%	0.0012		
Fossil Fuel Depl5%	0.0017		
Global Warming16%	0.0005		
Habitat Alteration16%	0.0000		
Human Health11%	0.0010		
Indoor Air11%	0.0000		
Ozone Depletion5%	0.0000		
Smog6%	0.0003		
Water Intake3%	0.0015		
Sum	0.0083		

Appendix B (continued)

